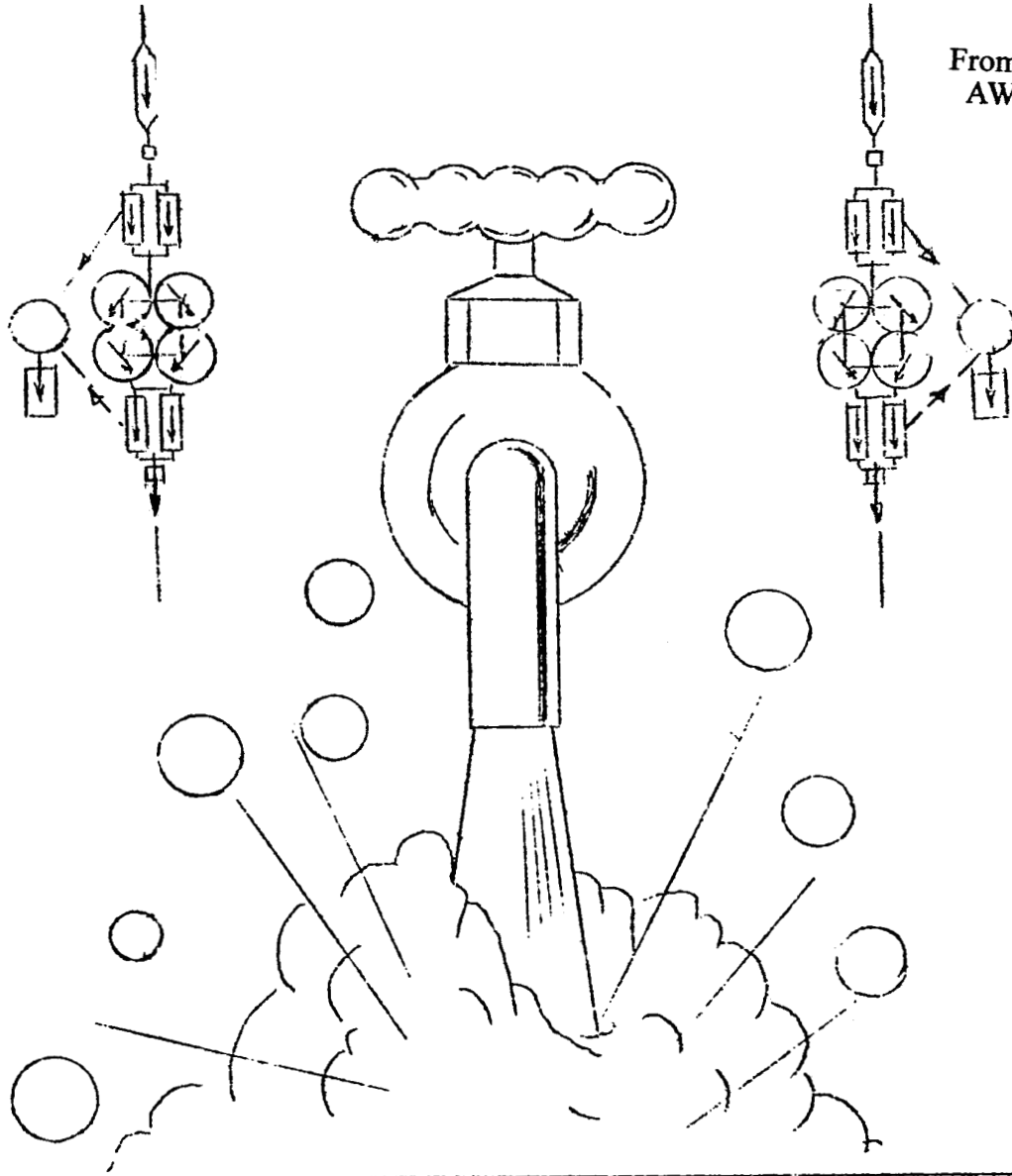


ARIZONA



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SEWAGE AND WATER WORKS ASSOCIATION

VOL. I

JULY 1938

NO. 1

OFFICIAL BULLETIN
ARIZONA SEWAGE AND WATER WORKS ASSOCIATION
JULY 1938

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July 1938-
- Mar. 1939.

OFFICERS

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2ND VICE-PRESIDENT.....PHIL MARTIN, JR.	BOARD OF CONTROL, MEMBER....J. A. CAROLLO

VOLUME NO. 1

JULY 1938

BULLETIN NO. 1

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OPEN LETTER FROM THE PRESIDENT

JUNE 22, 1938
PHOENIX, ARIZONA

DEAR ASSOCIATION MEMBERS:

WITH THE PUBLICATION AND DISTRIBUTION OF THIS BULLETIN, THE ARIZONA SEWAGE AND WATER WORKS ASSOCIATION INAUGURATES A NEW SERVICE FOR ITS MEMBERS. IT IS HOPED THAT THIS JOURNAL WILL BRING OUR MEMBERS CLOSER TOGETHER, PROVIDE THEM A MEANS OF EXPRESSING THEIR OPINIONS ON MATTERS PERTAINING TO THE PROFESSION, AND OFFER THEM INFORMATION ON THE LATEST DEVELOPMENTS IN THE FIELD AS WELL AS REITERATE CERTAIN FUNDAMENTAL PRINCIPLES UNDERLYING THIS BRANCH OF SANITARY SCIENCE.

GREAT CREDIT SHOULD BE GIVEN TO THE ENGINEERING DIVISION OF THE STATE BOARD OF HEALTH AND THE CITY OF PHOENIX HEALTH DEPARTMENT FOR THE PREPARATION AND DISTRIBUTION OF THIS PUBLICATION. THEY DESERVE THE ASSOCIATION'S SINCERE THANKS FOR THE EFFICIENT MANNER WITH WHICH THEY HAVE HANDLED IT.

ON JUNE 17TH THE EXECUTIVE COMMITTEE OF THE ASSOCIATION MET IN PHOENIX TO HEAR THE PRELIMINARY REPORT OF THE COMMITTEE ON REGISTRATION, WHICH IS LAYING THE GROUNDWORK FOR THE ESTABLISHMENT OF EDUCATIONAL STANDARDS FOR THE OPERATORS OF WATER AND SEWAGE WORKS IN THIS STATE. MEMBERS OF THIS COMMITTEE WERE ALSO INVITED TO ATTEND THIS MEETING AT THE REQUEST OF THE CHAIRMAN, LLOYD BURCH. A REPORT OF THEIR FINDINGS WILL BE PRESENTED AT THE NEXT ANNUAL MEETING OF THE ASSOCIATION, FOR CONSIDERATION BY THE BRETHREN.

THERE WAS APPOINTED AT THIS MEETING ANOTHER COMMITTEE TO REPORT BY AUGUST ON THE ATTITUDE OF THE ASSOCIATION TOWARD THE ADOPTION OF STATE-WIDE CIVIL SERVICE AND TO INVESTIGATE WHAT IS BEING DONE AT LARGE ON THIS SUBJECT.

THUS IS THE ASSOCIATION TRYING TO BE OF SERVICE TO ITS MEMBERS. WE ENTREAT YOU TO MAKE USE OF THE FACILITIES OFFERED BY THIS MAGAZINE TO EXPRESS YOUR VIEWS ON SUCH SUBJECTS AS ARE OF CONCERN TO US. ONLY IN THIS MANNER CAN WE KNOW YOUR NEEDS AND INTERESTS, AND SO DECIDE HOW TO MAKE THE ASSOCIATION OF STILL MORE VALUE TO YOU.

SINCERELY YOURS,

B. J. McMorro
B. J. MCMORROW,
PRESIDENT

BJM:HR

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STATUS OF DOMESTIC SEWAGE DISPOSAL IN ARIZONA

IT IS IN KEEPING WITH THE FIRST ISSUE OF OUR SEWAGE AND WATER WORKS ASSOCIATION OFFICIAL BULLETIN THAT WE SHOULD PRESENT A SUMMARY OF THE SEWERAGE FACILITIES OF OUR STATE. IT IS THE DEVELOPMENT OF THIS TYPE OF FACILITY THAT DIFFERENTIATES THE VILLAGE FROM THE CITY AND TOWN COMMUNITY. ONE OF THE FUNDAMENTAL REASONS FOR CREATING AN ORGANIZED COMMUNITY SUCH AS A TOWN OR CITY IS TO IMPROVE THE HEALTH AND SAFETY OF THE RESIDENTS OF THAT AREA. THE MEN CHARGED WITH THE OPERATION OF THE WATER SUPPLY AND THE SEWERAGE SYSTEM ARE AS IMPORTANT, IF NOT MORE SO, THAN ANY OTHER INDIVIDUAL OR OFFICIAL OF THE COMMUNITY. THE QUALITY OF THE WATER SUPPLY, AND THE EFFECTIVENESS OF THE SEWAGE DISPOSAL, REFLECTS ITSELF IN THE HEALTH OF THE CITIZENS OF THIS STATE, FOR THIS REASON IT IS QUITE IMPORTANT THAT YOU, THE OPERATORS OF THESE VARIOUS SERVICES, SHOULD BE MORE CLOSELY UNITED FOR THE COMMON GOOD. THIS IS A FRATERNITY THAT SHOULD EVENTUALLY EMBRACE THE ENTIRE WATER AND SEWERAGE WORKS PROFESSION HERE IN OUR STATE. THE OBJECTIVES OF THIS ORGANIZATION ARE TO THIS PURPOSE.

THE PERSONNEL OF THE VARIOUS PUBLIC HEALTH AGENCIES ARE NOT INTERESTED IN SUPPLANTING THE ACTIVITIES OF THE OPERATORS IN THEIR VARIOUS COMMUNITIES, BUT RATHER TO HELP THEM IN THE SOLUTION OF THEIR INDIVIDUAL PROBLEMS AND TO REINFORCE THE OPERATORS SO THAT THE PUBLIC MAY BE BETTER AND MORE EFFECTIVELY SERVED. IN THE DEVELOPMENT OF THIS ORGANIZATION WE DO NOT WANT TO LOSE SIGHT OF THE MAN THAT WE SERVE—THE FELLOW WHO USES THESE UTILITIES. THE GOLDEN RULE APPLIES HERE IN OUR PROFESSION TO AN EVEN GREATER EXTENT THAN IT DOES IN OTHERS.

IN REVIEWING THE COMMUNITY SEWAGE DISPOSAL FACILITIES OF OUR STATE ON THE ACCOMPANYING TABLE, IT WOULD BE AN UTOPIAN CONDITION IF ALL OF THESE COMMUNITIES WERE IMMEDIATELY PLACED IN THE SAME CATEGORY AS THE LAST GROUP—THOSE TOWNS WITH COMPLETE SEWAGE DISPOSAL FACILITIES. AT THE GRAND CANYON WE HAVE ONE OF THE IDEAL SITUATIONS IN WHICH THE SEWAGE DISPOSAL FACILITY IS CAPABLE OF PRODUCING A WATER COMPARABLE TO DRINKING WATER STANDARDS. THIS IS NOT NECESSARY IN ALL INSTANCES, YET IT SHOWS HOW FAR THE SANITARY ENGINEER CAN PROJECT SEWAGE TREATMENT. IT IS HOPED THAT EVENTUALLY ALL OF OUR COMMUNITIES WILL HAVE SEWAGE DISPOSAL SYSTEMS THAT ARE CAPABLE OF PRODUCING A SAFE EFFLUENT AT ALL TIMES.

AS THE YEARS GO ON, IT IS HOPED THAT THIS LIST WILL BE CONTINUALLY ALTERED, SO THAT TOWNS WITHOUT SEWAGE WILL HAVE COLLECTION SYSTEMS, AND TOWNS WITH PRIMARY TREATMENT WILL HAVE THE MOST ADVANCED TYPE OF TREATMENT. THIS LIST MAY SERVE AS A BASIS OR AN INDEX TO THE SEWAGE DEVELOPMENT THAT WILL COME IN THE FUTURE. THIS IS A DEVELOPMENT THAT DEPENDS ON THE MEMBERS OF THIS ASSOCIATION MORE THAN OTHER OTHER GROUP. THIS INDEX WILL MEAN MORE TO OUR MEMBERSHIP IN THE YEARS TO COME THAN IT DOES AT THE PRESENT TIME. IT WILL SHOW US HOW EFFECTIVE WE HAVE BEEN.

F. C. ROBERTS, JR., C. E.

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THIS FIRST ISSUE IS A "TRIAL HORSE" FURNISHING SOME SMALL AMOUNT OF INFORMATION ON TWO OF OUR GENERAL PROBLEMS. ALL OF US WANT TO HEAR FROM EACH OF YOU INDIVIDUALLY ON YOUR OWN PROBLEMS. IF YOU HAVE A PROBLEM THAT YOU HAVE OR HAVE NOT SOLVED, SEND IT TO THE ENGINEERING DIVISION, ARIZONA STATE BOARD OF HEALTH, STATE BUILDING, PHOENIX, AND AND WE WILL PRESENT IT TO THE "GANG". THIS IS YOUR PUBLICATION. GIVE US THE MATERIAL AND WE WILL PUBLISH IT IN YOUR WORDS, WHICH WE WOULD PREFER, OR WE CAN EDIT IT—ONLY IF YOU SO REQUEST.

A NUMBER OF YOU HAVE PRESENTED TALKS AT VARIOUS TIMES, SEND THEM TO US AND WE WILL USE THEM. WE WOULD LIKE TO HEAR FROM: "TILLY" TILLOTSON, DAVE OSTRANDER, HILLARD HALL, LLOYD BURCH, CHARLEY HIRCOCK, JANE RIDER, GEORGE BURGETT, HARRY HANSON, JIM SEXTON, MARSHALL ROACH, AND "ALL THE LAOS".

WE DON'T THINK MUCH OF THIS PRESENT METHOD OF WRITING THESE ARTICLES. WE WILL ACT AS THE OFFICIAL "FILLER UP'ER" IF YOU DON'T SEND IN THE INFORMATION, BUT WE DON'T WANT THE JOB. WE WILL MAKE STENCILS OF YOUR DRAWINGS IF YOU DON'T MAKE THEM TOO COMPLICATED. COMPLICATED DRAWINGS ARE DIFFICULT TO CUT ON THESE STENCILS.

MAY WE HEAR FROM YOU?

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STATUS OF DOMESTIC SEWAGE DISPOSAL IN ARIZONA

URBAN SEWAGE DISPOSAL

COMMUNITIES WITH 500 POPULATION OR MORE
1930 CENSUS.

TOWNS WITHOUT COLLECTION: 23 COMMUNITIES WITH A TOTAL POPULATION OF 23,887

BENSON	925	NACO	473	SOLOMONVILLE	500
BOWIE	500	OATMAN	975	SUPERIOR	4295
CLAYPOOL	500	PARKER	600	THATCHER	895
COOLIDGE	874	PATAGONIA	500	TOLLESON	910
COTTONWOOD	1500	PEORIA	600	TOMBSTONE	847
DUNCAN	1090	PIMA	980	WILLCOX	806
GILBERT	791	ST. JOHNS	1386	WINKELMAN	729
MAYER	450	SCOTTSDALE	2761		

TOWNS WITH COLLECTION ONLY: 6 COMMUNITIES WITH A TOTAL POPULATION OF 19,608

BISBEE	8083	FLAGSTAFF	3891	SOMERTON	891
CASA GRANDE	1351	GILA BEND	500	YUMA	4892

TOWNS WITH COLLECTION SYSTEM AND SEPTIC TANK: 15 COMMUNITIES WITH A TOTAL POPULATION OF 41,880

AJO	2500	FLORENCE	1318	NOGALES	6006
ASHFORK	600	FT. HUACHUCA	1000	RAY	4102
CHANDLER	1378	HAY DEN	2264	SAFFORD	1706
CLARKDALE	2500	MCNARY	500	SELIGMAN	750
DOUGLAS	9828	MESA	3711	WINSLOW	3717

TOWNS WITH COLLECTION AND SEPARATE SLUDGE DIGESTION: 10 COMMUNITIES WITH TOTAL POPULATION OF 64,581

CLIFTON	2305	KINGMAN	2275	TUCSON	32506
GLOBE	7157	MORENCI	5108	WARREN	1500
HOLBROOK	1115	PRESCOTT	5517	WILLIAMS	2166
JEROME	4932				

TOWNS WITH SEPARATE SLUDGE DIGESTION SECONDARY TREATMENT: 3 COMMUNITIES WITH TOTAL POPULATION OF 12,092

GLENDALE	3665	MIAMI	7693	WICKENBURG	734
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TOWNS WITH TERTIARY TREATMENT: 2 COMMUNITIES WITH TOTAL POPULATION OF: 43,618

PHOENIX	48118
GRAND CANYON	500

TOWNS WITH WORK NOW PENDING: 3 COMMUNITIES WITH TOTAL POPULATION OF 4,137

BUCKEYE	1077	SPRINGVILLE	565	TEMPE	2495
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-3-

F L A S H ! !

THE NATIONAL ASSOCIATION OF SANITARIANS WILL HOLD THEIR NEXT ANNUAL CONVENTION IN PHOENIX, PROBABLY ON DECEMBER 10, 1938. THE ARIZONA SEWAGE AND WATER WORKS ASSOCIATION WILL MEET AT THE SAME TIME AND ACT AS HOST. THE NEXT ISSUE OF OUR OFFICIAL BULLETIN WILL CONTAIN MORE DETAILED INFORMATION ON THIS MEETING.

B. J. McManis
PRESIDENT

DANGER OF CESS POOL DISPOSAL OF SEWAGE TO
WELL WATER SUPPLIES

IN THE PAST FEW YEARS, A NUMBER OF POLLUTED WELLS HAVE BEEN CALLED TO THE ATTENTION OF THE SEVERAL HEALTH SERVICES. THE ONLY POSSIBLE SOURCE OF POLLUTION IN A NUMBER OF THESE INSTANCES WERE CESS POOLS THAT WERE LOCATED IN THE DIFFERENT NEIGHBORHOODS. IN ONE INSTANCE, THE HEALTH SERVICE RECOMMENDED THAT THE PEOPLE OWNING THE CESS POOL SHOULD CONNECT TO THE CITY SEWERAGE SYSTEM RUNNING NEAR TO THEIR PLACE. THE PEOPLE DID THIS, AND THE SHALLOW, DOMESTIC WELL "WENT DRY". THEY IMMEDIATELY PAID FOR A WATER SUPPLY EXTENSION TO THE CITY SYSTEM.

VERY OFTEN THE DOMESTIC WELL IS PROPERLY CONSTRUCTED, THE CASING IS IN GOOD REPAIR, THE TOP OF THE WELL IS PROPERLY CURBED AND THE RESERVOIR AND PIPING ARE IN GOOD CONDITION; YET WE FIND THAT THE WATER IS BACTERIALLY UNSAFE. WE HAVE FOUND THAT CESS POOLS MAY BE VIEWED WITH A GREAT DEAL OF SUSPICION FOR WE CANNOT TELL HOW FAR THEY MAY BE ABLE TO POLLUTE THE SURROUNDING UNDERLYING WATER STRATUM. IF WE COULD WATCH THE FLOW IN THESE UNDERLYING WATER STRATA, IN THE SAME MANNER THAT WE CAN WATCH THE FLOW IN AN OPEN STREAM OF WATER, WE COULD COME TO SOME DECISION INSOFAR AS THE POLLUTING POSSIBILITIES OF THE CESS-POOL ARE CONCERNED.

A SEPTIC TANK AND TILE FIELD IS THE SAFEST METHOD OF RURAL SEWAGE DISPOSAL WHERE PLUMBING IS PROVIDED. THIS METHOD DEPENDS ON A SHALLOW MEANS OF SEWAGE DISPOSAL, WHERE EVAPORATION AND PLANT ABSORPTION ARE THE GOVERNING FACTORS. THIS METHOD HAS A NUMBER OF DRAW-BACKS. THE SEPTIC TANK HAS TO BE PERIODICALLY CLEANED OUT (ABOUT ONCE A YEAR). FLOOD WATER AND LARGE AMOUNTS OF IRRIGATION WATER SHOULD BE KEPT AWAY FROM THE TILE FIELD. THE TILE LINES OFTEN BECOME CLOGGED AND HAVE TO BE DUG OUT AND CLEANED. THIS METHOD OF SEWAGE DISPOSAL IS MORE EXPENSIVE TO INSTALL THAN THE CESS POOL METHOD. YET WITH ALL THESE DISADVANTAGES, THE SEPTIC TANK IS BY FAR THE SAFEST METHOD OF SEWAGE DISPOSAL. IF THIS METHOD IS USED, THE HOME OWNER KNOWS THAT HIS SEWAGE, OR THE SEWAGE OF HIS NEIGHBOR, IS NOT INCLUDED IN HIS DRINKING WATER SUPPLY.

THERE IS ONLY ONE ENTIRELY SATISFACTORY METHOD OF SEWAGE DISPOSAL, AND THAT IS THE CITY SEWAGE COLLECTION SYSTEM. THIS IS NOT ALWAYS PRACTICAL TO INSTALL, BUT IF THERE IS A POSSIBILITY TO CONNECT TO A CITY SYSTEM, IT IS SAFER THAN THE CESS POOL AND EASIER TO OPERATE THAN THE SEPTIC TANK. THEN THE OPERATION IS TURNED OVER TO THE SUPERINTENDENT OF SEWERS. THE SUPERINTENDENT OF SEWERS, OR SEWAGE PLANT OPERATOR, THEN HAS ALL OF THE HEAD-ACHES THAT CAN BE "PILED" UP ON ONE PERSON. HE THEN JOINS THE ARIZONA SEWAGE AND WATER WORKS OPERATORS ASSOCIATION, AND BECOMES JUST ANOTHER ONE OF US "CRACKPOTS" TRYING TO DO A GOOD JOB.

THE FOLLOWING TWO DRAWINGS IN THIS PUBLICATION SHOW SCHEMATICALLY HOW A CESS POOL CAN POLLUTE A WELL, AND THE SUPERIORITY OF THE SEPTIC TANK OVER THE CESS POOL. IN THE OUTLYING SECTIONS OF A TOWN WHERE THE POPULATION IS CONGESTED THERE IS A GRAVE POSSIBILITY OF A POLLUTED UNDERLYING WATER STRATA IF CITY SEWERAGE IS NOT PROVIDED. OFTEN THE COMMUNITY CANNOT AFFORD TO MAKE SUCH EXTENSIONS. IN THIS CASE THE OUTLYING RESIDENTS SHOULD NOT BE ALLOWED TO USE CESS POOLS AS A MEANS OF SEWAGE DISPOSAL. THIS SAME UNDERLYING WATER STRATA MAY SERVE AS A SOURCE OF WATER SUPPLY, OR SOMETIME IN THE FUTURE MAY BE CALLED ON TO SERVE AS A SOURCE OF WATER SUPPLY. WE SHOULD PROTECT IT.

WE HAVE A NEED FOR STATE LEGISLATION ENABLING THE FORMATION OF SANITARY DISTRICTS SO THAT A SEWER SYSTEM CAN BE EXTENDED TO INCLUDE A GREATER AREA THAN THAT INCLUDED IN A CITY'S LIMITS, OR SO AN UNINCORPORATED COMMUNITY CAN BE SERVED WITHOUT THE NECESSITY OF INCORPORATION. ALSO THE SANITARY DISTRICT WILL PERMIT THE EXTENSION OR FORMATION OF WATER SUPPLY SYSTEMS. SUCH DISTRICTS WILL AFFORD A MEANS OF ELIMINATING THESE DANGEROUS CESS POOLS.

IT SEEMS A GREAT DISGRACE THAT OUR CIVILIZATION SHOULD ALLOW THE POLLUTION OF THOSE SUB-SURFACE, LIFE-GIVING WATERS BY THESE WASTES, WHICH, DUE TO THEIR VERY NATURE, ARE THE MOST DANGEROUS SUBSTANCES THAT CAN JEOPARDIZE THE HEALTH OF OUR NEIGHBORS, OUR FAMILIES AND OURSELVES.

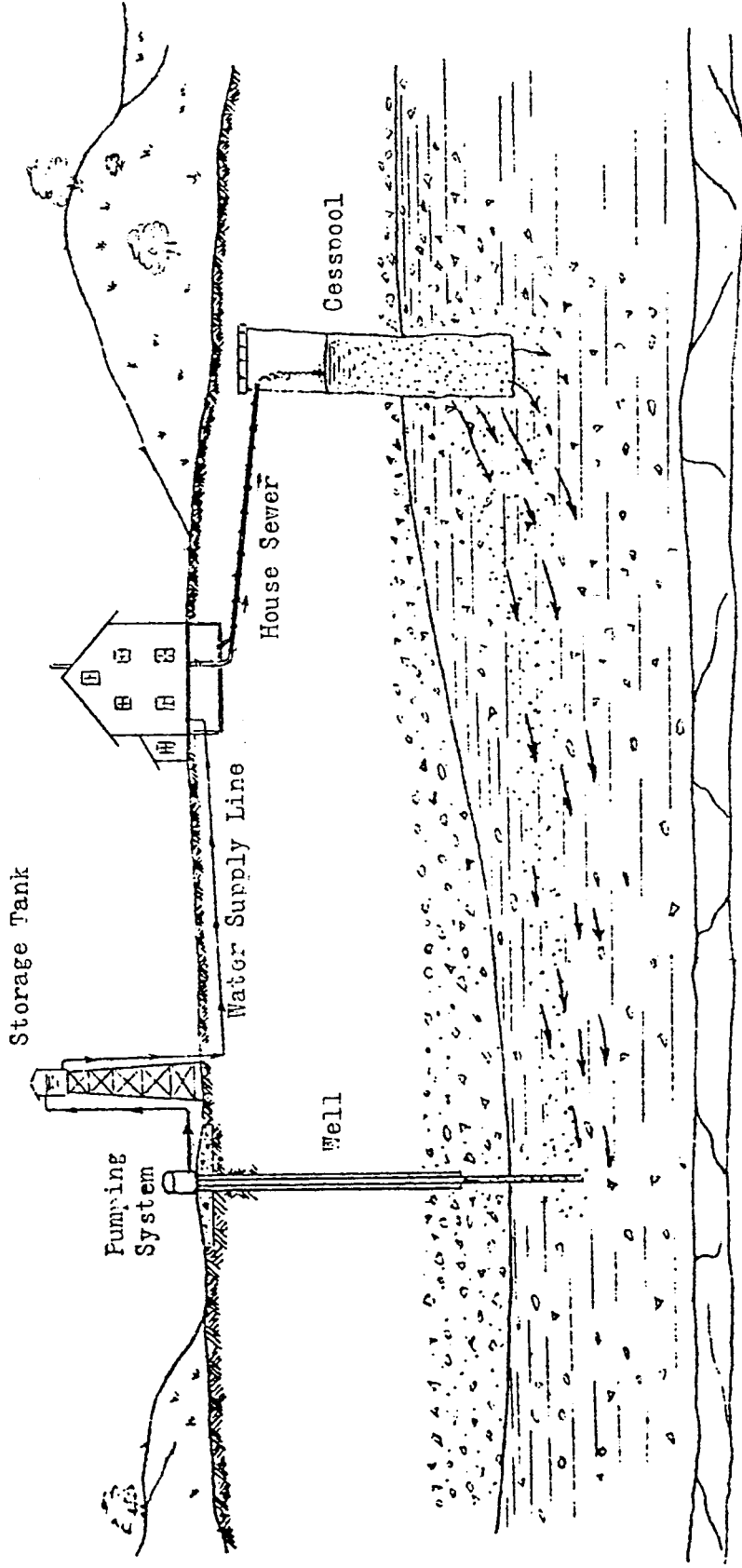
F. C. ROBERTS, JR., C. E.

GET YOUR INFORMATION FOR THE NEXT ISSUE OF THE OFFICIAL BULLETIN IN
TO US BEFORE THE 18TH OF AUGUST.

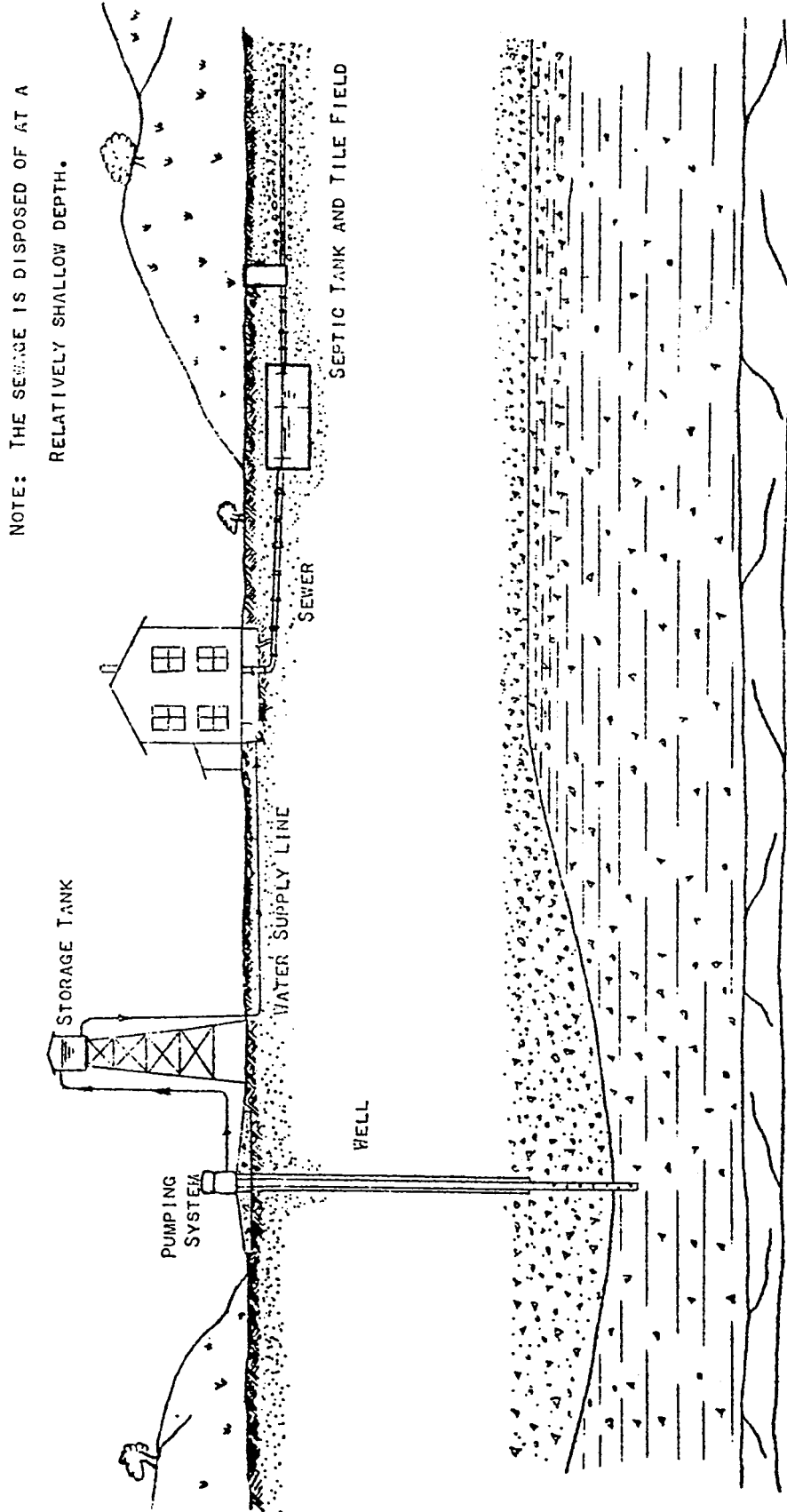
—THE ED.

POLLUTION OF WELL WATER
BY CESSPOOL DISCHARGE

Note: The leaching cesspool discharges
sewage directly into the water supply stratum.



NON-POLLUTION OF WELL WATER
BY PROPER SEWAGE DISPOSAL



LIST OF ARIZONA SEWAGE AND WATER WORKS
ASSOCIATION MEMBERSHIP

ASHLEY, FRED M., CITY HALL	PHOENIX
BENNETT, RICHARD, 80 WEST WILLETTA	PHOENIX
BORQUIST, E. S., UNIVERSITY OF ARIZONA	TUCSON
BURGETT, GEORGE (CITY OF PRESDOTT)	PRESCOTT
BURCH, LLOYD R., WATER DEPARTMENT	TUCSON
CAROLLO, J. A., (HEADMAN-FERGUSON-CAROLLA) 319 HOMEBUILDERS BLDG.	PHOENIX
CHILDS, G.G., BOX 801	DOUGLAS
CUSHING, ROBERT M., 319 HOMEBUILDERS BLDG.	PHOENIX
DAMRON, GEORGE A., 632 N. 1ST AVE.	TUCSON
DEVINE, M. E., 309 NORTH FREMONT	TUCSON
FRICK, A. L., JR., 2311 EAST 8TH STREET	LOS ANGELES
HALL, HILLIARD	GRAND CANYON
HANSON, HARRY (TOWN OF WICKENBURG)	WICKENBURG
HIRCOCK, CHARLES, 322 WEST B AVENUE	GLENDALE
KEYS, HARMON EDWARD, CH.E., 823 E VAN BUREN	PHOENIX
LADLOW, JOHN W., BOX 1784	PHOENIX
MARTIN, PHIL J., JR., CITY HALL	TUCSON
MAUZEY, P. E., HEALTH DEPT., CITY HALL	PHOENIX
MARX, GEO. W., BOX 791	NOGALES
MCKEEHAN, NOEL, ROOM 9, COURT HOUSE	PHOENIX
MCMORROW, B. J., ROOM 9, COURT HOUSE	PHOENIX
O'CONNELL, WM., 171 SECOND STREET	SAN FRANCISCO
OSTRANDER, DAVE., BOX 264	HOLBROOK
RASMUSSEN, GEO., 510 NORTH 6TH STREET	PHOENIX
RAUSCHER, JOHN L, CITY HALL	TUCSON
RAWN, A. M., 130 NORTH BROADWAY	LOS ANGELES
RIDER, JANE, 534 WEST LATHAM	PHOENIX
ROACH, MARSHALL MO, 2027 E. BELLEVUE	PHOENIX
ROBERTS, F. C., JR., STATE CAPITOL ANNEX	PHOENIX
SEXTON, J. P.	CASA GRANDE
STANFILL, W. E., 23 ASPEN AVE.	FLAGSTAFF
TRAVIANI, DARIO, 3RD FLOOR, CITY HALL	PHOENIX
WAGGONER, ED. R., 306 WEST AVE, 26	LOS ANGELES
WINTERSGILL, A. T., 306 WEST AVE, 26	LOS ANGELES

IF YOUR NAME IS NOT ON THIS LIST, SEND \$2.00
TO P. E. MAUZEY, CITY HALL, PHOENIX, AND BE-
COME AN ACTIVE MEMBER

FOR THE \$2.00 YOU RECEIVE: THE "SEWAGE WORKS JOURNAL" (WHICH CARRIES A YEARLY SUBSCRIPTION PRICE OF \$3.00) AND YOU PAY 50 CENTS LOCAL DUES. YOUR AFFILIATION WITH THIS ACTIVE GROUP INSURES THAT YOUR PROFESSION HAS SOME REPRESENTATION. GET OUT THE CHECK BOOK AND SEND IN YOUR DUES TO "PETE" TODAY. IF YOU DON'T WANT THE SEWAGE WORKS JOURNAL, SEND IN 50 CENTS FOR LOCAL DUES ONLY. UNDER THE \$2.00 PRICE, YOU GET \$3.50 WORTH OF VALUE.

-7-

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